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B/181/60/002/010/003/051 B019/B070

26.163) AUTHORS:

Zhdanovich, H. S., Konopleva, R. F., Ryvkin, S. M.

TITLE:

Annealing-out of Defects Formed by Gamma Rays in n-Type Germanium

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2356-2358

TEXT: When the defects produced in n-type germanium by irradiation with frays are removed by annealing, the decrease shows a nonexponential character. For an explanation of this it is necessary to consider the diffusion of the interstitial atoms and vacancies (Refs. 2,3). Fig. 1 shows the fraction for the defects removed by annealing as a function of shows the fraction for the defects removed by annealing as a function of the for annealing temperatures of 120, 140, and 160°C, t being the annealing time. The experimental values are seen to agree with the theory mealing time. The experimental values are seen to agree with the theory mentioned in the introduction. Similar results are obtained on bombardmentioned in the introduction. The activation energy for the diffusion ment by electrons and neutrons. The activation energy for the diffusion of the defects is found to be 1.01 ev. For comparison, analogous values obtained on irradiation with neutrons (1.12 ev) and with electrons (1.36 and 1.3 ev) are given (Refs. 1,3,4,5). Fig. 2 shows  $\varphi$  as a function (1.36 and 1.3 ev) are given (Refs. 1,3,4,5). Fig. 2 shows  $\varphi$  as a function

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Annealing-out of Defects Formed by Gamma Rays in n-Type Germanium

S/181/60/002/010/003/051 B019/B070

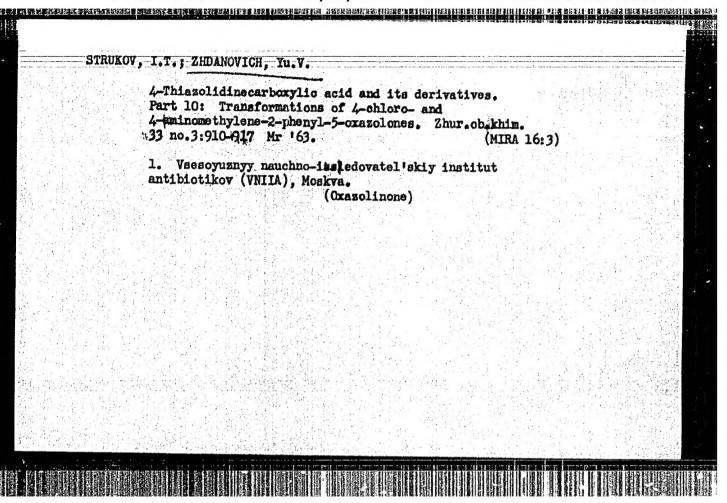
of  $Z = (4Dt/r_0^2)^{1/2}$ . It is found that the experimental and theoretical values agree well for  $\lambda = 0.5$  and  $D_0/r_0^2 = 1.3 \cdot 10^9$  per second.  $r_0$  is, thus, found to be 2.8.10-7 cm, and so somewhat larger than that obtained in the case of neutron bombardment. Fig. 3 shows that by increasing the g quantum flux the removal of defects by annealing is more rapid. The linear part of the curve is also reduced. In the conclusion it is stated that the theory of the removal of defects by annealing which is confined to diffusion is unable to explain some important properties which are possibly connected with the interaction of defects with other structural perturbations. There are 3 figures and 6 references: 2 Soviet and 4 US.

ASSOCIATION: Piziko-tekhnicheskiy institut AN SSSR, Leningrad (Institute of Physics and Technology of the AS USSR, Leningrad)

SUBMITTED:

March 17, 1960

Card 2/2



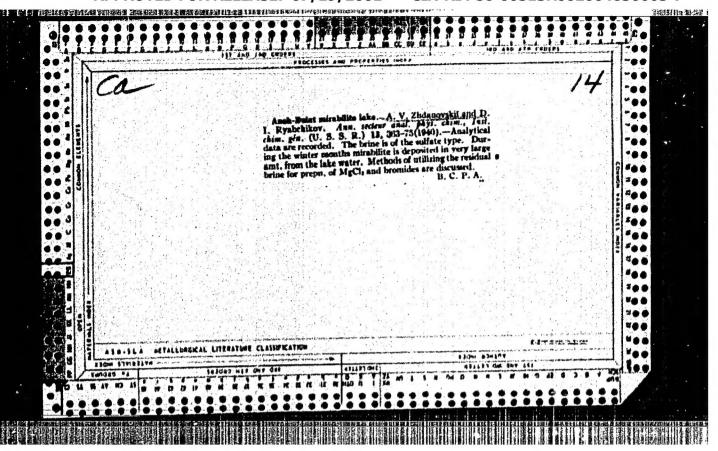
POLUKAROV, A. N., KUPCHENKO, M. N., Prinimali uchastiys: CHESHOHAT, A. I.; I.

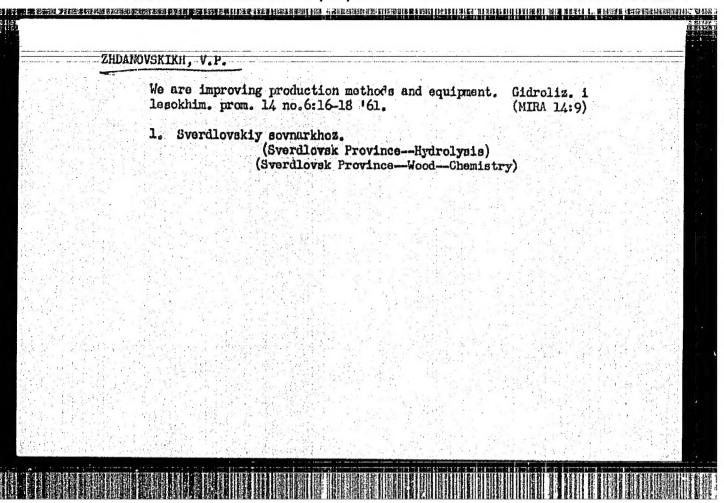
MALVSHEVA, F. I.; ZEDANOVICZ, Tu. V, KUAREV, A. V.; KOLTISHEV, D.; I.

Tellurium recovery from copper-tolysis slime into socium slag. TSvet. met. 33 no.8:56-57 Ag '60. (MIRA 13:8)

(Copper-Electrometallurgy)

(Tellurium)





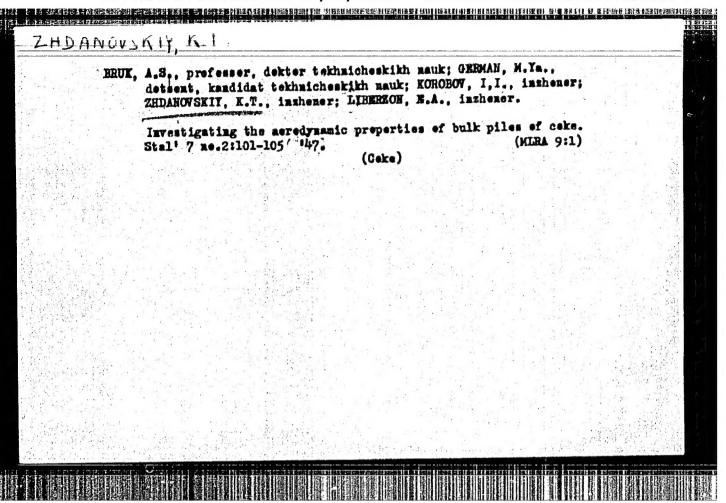
KHDAN)VSKIY. A.B.: LYAKHOVSKAYA, Ye.I.: SHLEYNOVICH, R.E.; BUKSHTEYN, V.M., redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor; KOTS, V.A., otvetstvennyy redaktor; LEVIN, S.S., tekhnicheskiy redaktor.

[Handbook of experimental data on the solubility of multicomponent water-salt systems] Spravochnik eksperimental nykh dannykh po rastvorimosti mnogokomponentnykh vodnosolevykh sistem. Leningrad, Gos.nauchno-tekhn.isd-vo khim.lit-ry. Vol.2.[Quaternary and more complex systems] Chetyrekhkomponentnye i bolee sloshnye sistemy. 1954. 1269 p. (MLRA 8:3)

(Solubility)(Salts)(Systems (Chemistry))

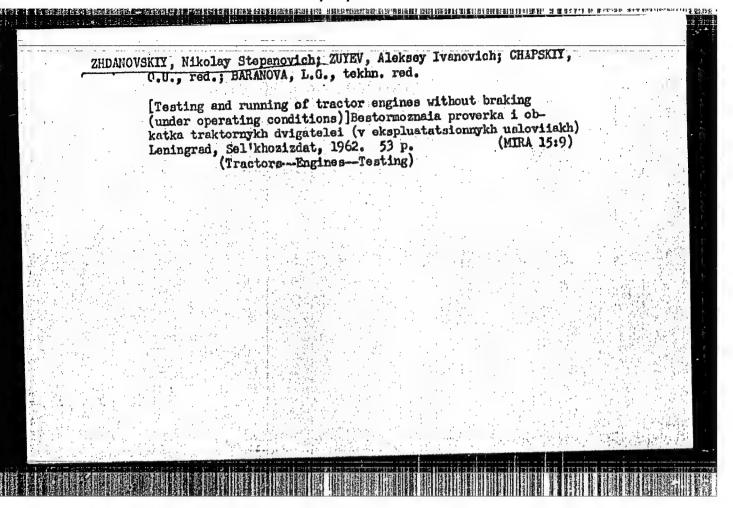
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ZHDAI	NOVSKIY, K.T.; NETREBKO, P.G.; RABINOVICH, G.V.; SUKONNIK, M.A.;	
	Blast furnace operations on sinter with the fine fraction since out. Metallurg 10 no.12:3-5 D '65. (MIRA 18:12)	ited
	1. Krivorozhskiy metallurgicheskiy savod.	
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	V., traktor ZHDANOVSKI nauk	Y, N., pr	of., dokto	r tekhn.na	ik; MORSHI	N, A., ka	nd. tekhn.	
	Determination .3:35-37	ion of th		ting of an		Sel'.mekh (M)	RA 15:3)	
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	NR, AR6017326 (A) SOURCE CODE: UR/0273/66/000/001/0045/0045	
AU	THOR: Zhdanovskiy, N. S.; Gitlin, N. N.; Nikolayenko, A. V.; Koshushko, K. I.	
TI'	TLE: Jet ignition is an effective means of increasing economy and completeness combustion in automotive engines working on gasoline and liquified gas	
SO	URCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 1.39.337	
RE	F SOURCE: Zap. Leningr. skh. in-ta, v. 97, 1965, 181-189	
TO	PIC TAGS: ignition, combustion research, engine ignition system, fuel	
	naumption	
AB	STRACT: Jet ignition is an effective means of increasing fuel economy in serial	
au	tomotive engine working on gasoline and liquified gas. The more active flow of	
. th	e combustion process/results in decreasing the carbon loxide content in exhaust	
ga	e combustion processAresults in decreasing the carbon loxide content in exhaust ses, compared to spark ignition. This holds true for both gasoline and liquified	
ga fu	e combustion process/results in decreasing the carbon loxide content in exhaust ses, compared to spark ignition. This holds true for both gasoline and liquified els.	
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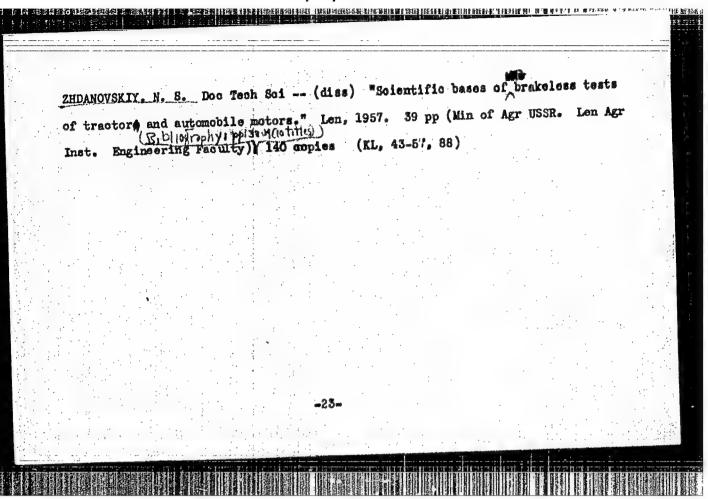
ZHDANOVSKII, N. S., doktor tekim. nauk; GITLIN, N. N., kand. tekim.

nauk; NIKOLAYKNKO, A. V.

Investigating the performance of the GAZ-21 engine with flame ignition in case of carburetor mixing and fuel injection, Avt. prom. 28 no.913-8 S'62.

1. TSentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplimoy apparatury avtotraktornykh i statsionarnykh dvigateley i Leningradskiy sel'skokhozyaystvennyy institut.

(Motor vehicles—Engines—Testing)



ZHDANOVSKIY, N. S. and D'IAKOV, D. N.

Kharakteristiki effektivnosti i ekonomichnosti dvigatelei otechestvennykh traktorov. Moskva, Mashgiz, 1949. 83 p. diagres.

Characteristics of the effectiveness and efficiency of Soviet traction engines.

DIC: T1210.D5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

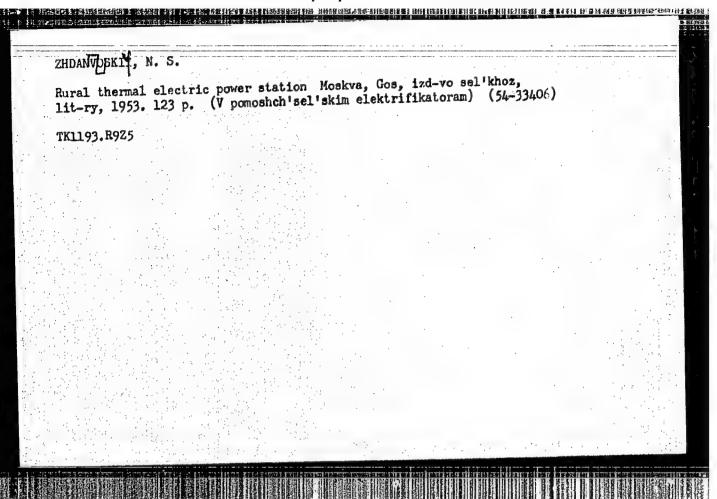
ZHDANOVSKIY, N.S.

29194 Sravniteľsnoe issledovanie sposobov eksperimentaľsnogo opredileniya mekhanicheskikh poter: abtotraktornykh dvigagelsy. Sborník něuch-tekhn. rabot (Leningr. int mekhanizatsii sel. Khoz-va,) Vi, 1949, S. 44-77

SO: Letopsi' Zhurmal'nykh Statey, Vol. 39, Moskov, 1949

29193 Issledovanis teplarogo Rezhina gil'zy Rabot (Leningr. in-t mekhanisatsii sel. Khoz-va,) Vi, 1949, S. 78-98

SO: Letopái! Zhurnal'nykh Statey, Vol. 39, Moskov, 1949



D'YACHENKO, Nikolay Kharitonovich, doktor tekhm. nauk, prof.; DASHKOV,
Sergey Nikitich, doktor tekhm. nauk, prof.; MUSATOV, Vitaliy
Sergeyevich, kand.tekhm.nauk; BELOV, Pavel Mitrofanovich, kand.
tekhm.nauk, prof.; BUDYKO, Yuriy Ivanovich, kand.tekhm.nauk. Prinimali uchastiye: BURYACHKO, V.R.; GUGIN, A.M.; ZHIDANOVSKIY, N.S.,
doktor tekhm. nauk, prof.; retsenzent; YURKEVICH, M.P.; inzh.;
red. izd-va; PETERSON, M.M., tekhm. red.

[High-speed piston internal conbustion engines] Bystrokhodnye
porehmevye dvigateli vnutrennego sgoranita. Monkva, Mashgis, 1962.
368 p. (MIRA 15:7)

(Gas and oil engines) (Diesel engines)

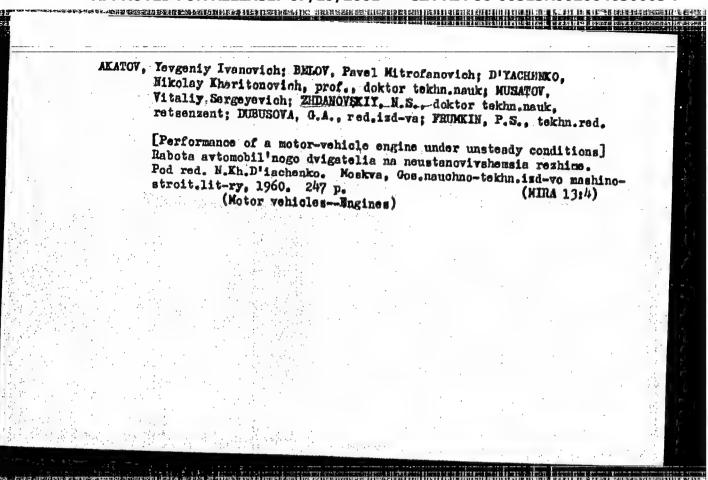
Automobiles - Motors Determining mechanical losses of automobile and tractor engines by the method of

Avt.trakt.prom., no. 6, 1952.

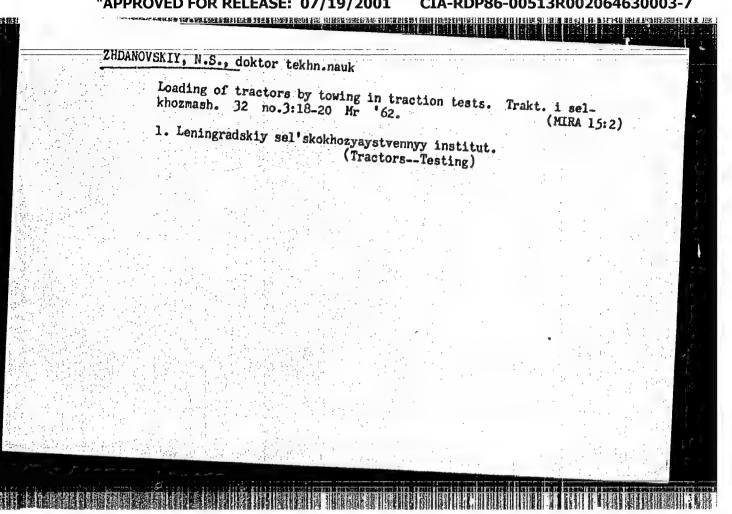
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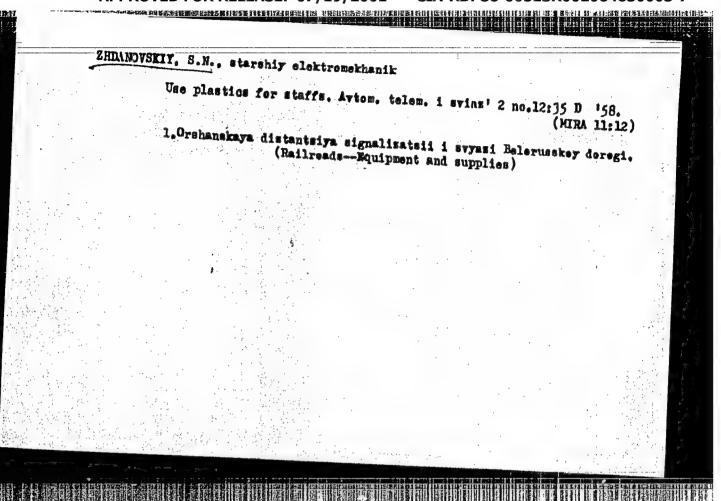
cylinder elimination.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, OCTOBER 1952. UNCLASSIFIED.



#### "APPROVED FOR RELEASE: 07/19/2001





BISIKALOVA, V.H.; PREDTECHENSKIY, A.N.; ZHDANOVSKIY, V.I.

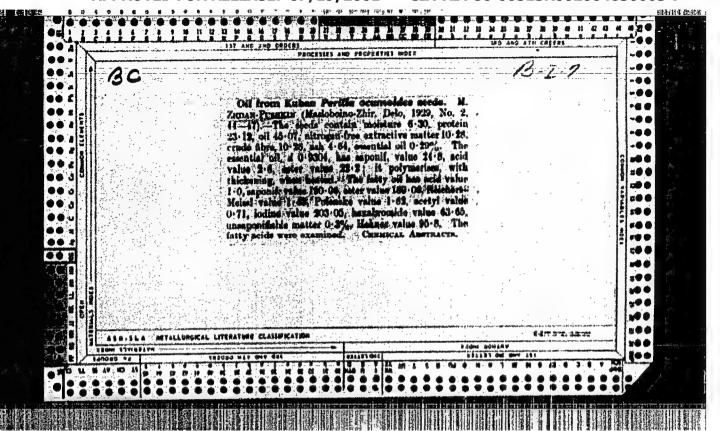
Effect of drug-induced sleep on the course of the vaccination process in rabbits vaccinated with living tularemia vaccine. Zhur.

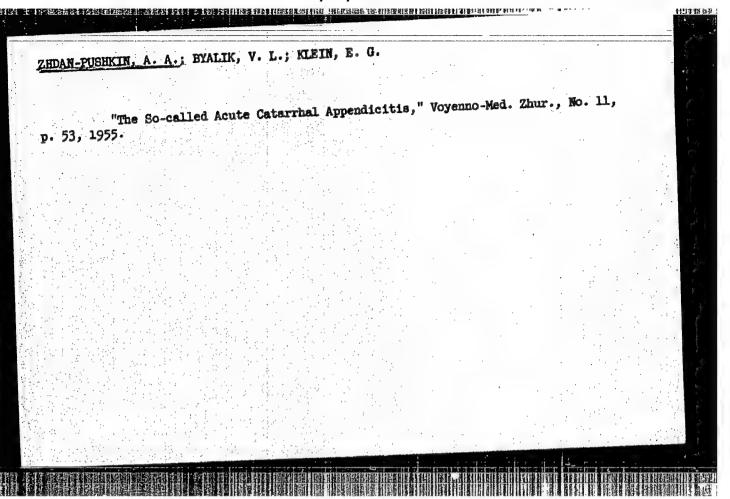
mikrobiol.epid. i immun.28 no.12:98-101 D '57. (MIRA 11:4)

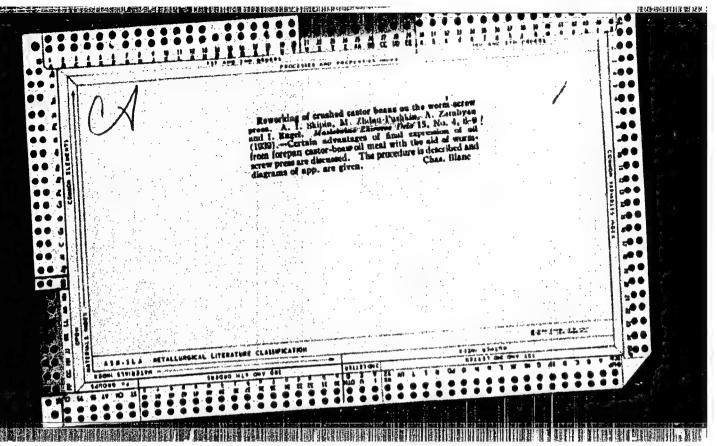
1. Iz Saratovskogo meditsinskogo instituta.

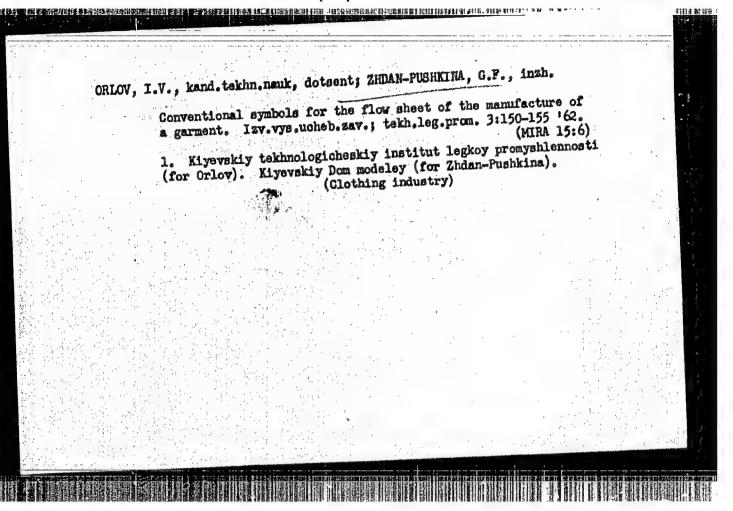
(TULAREMIA, immunology, vacc. with living vaccine, eff. of sleep ther. in rabbits (Rus)

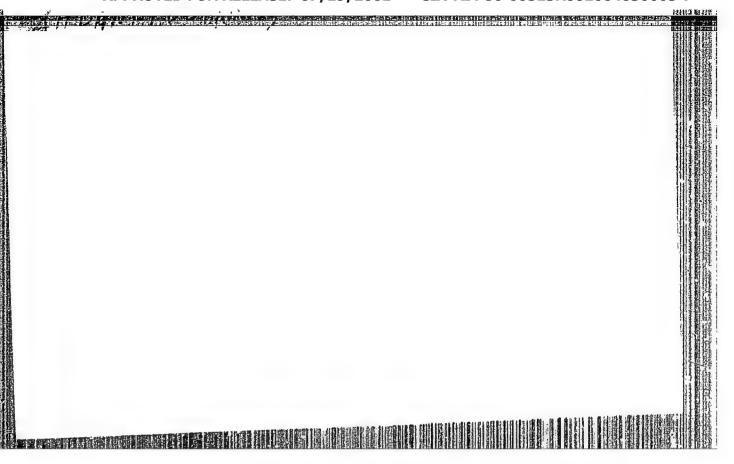
(SLEEP, effects.
on immun. response to living tularemia vaccine in rabbits (Rus)

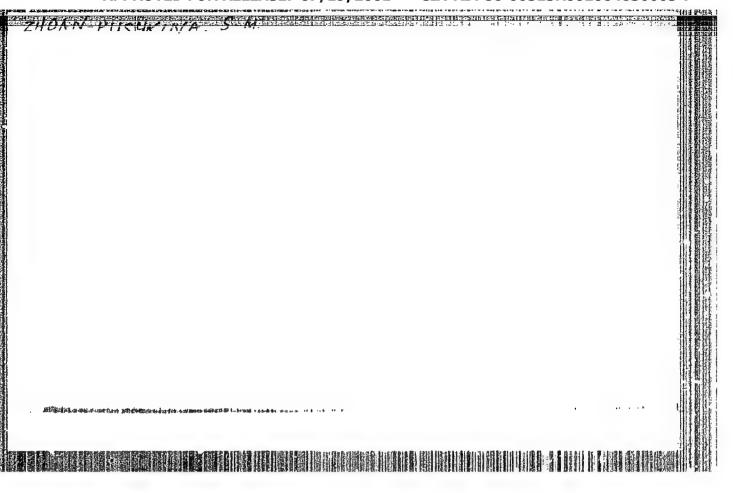


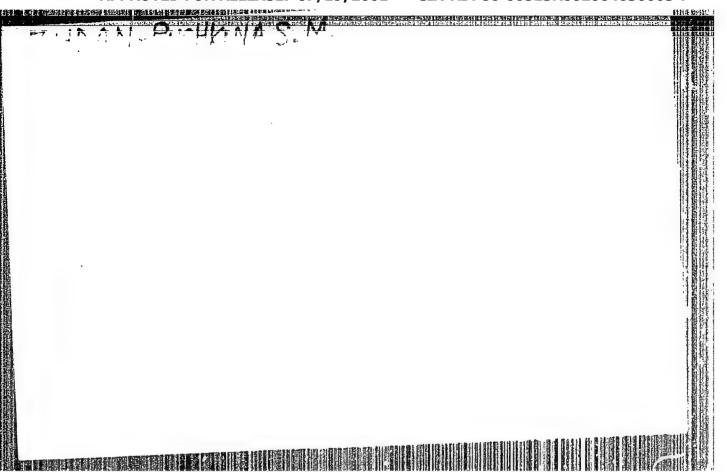


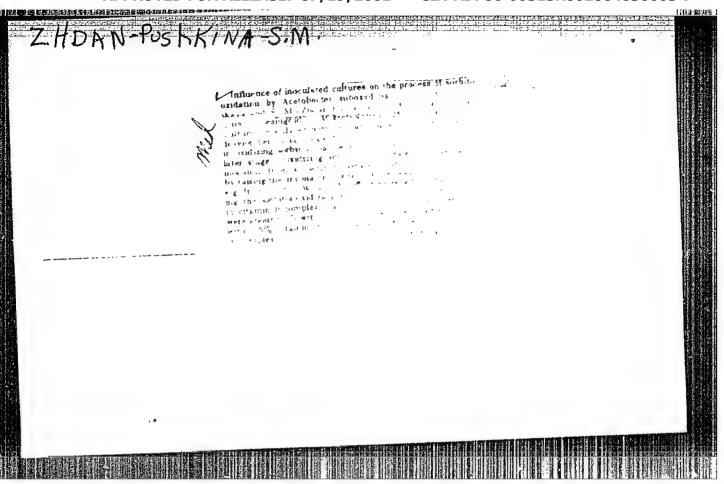


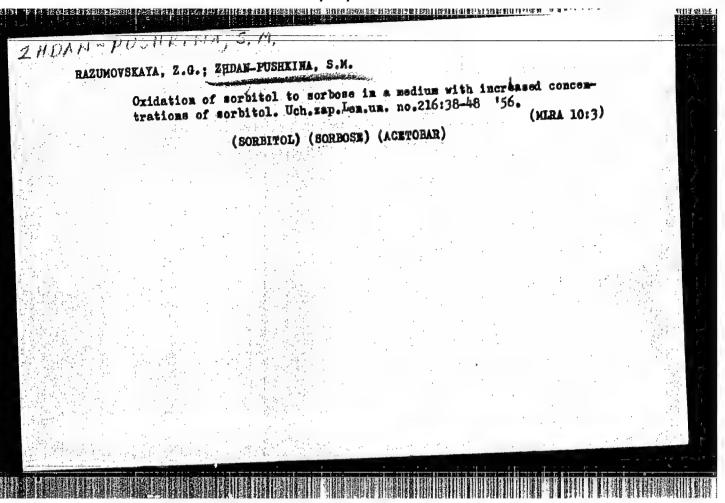


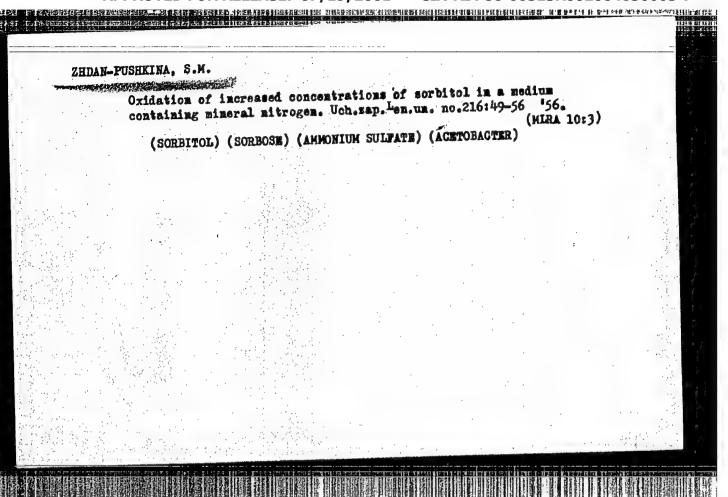


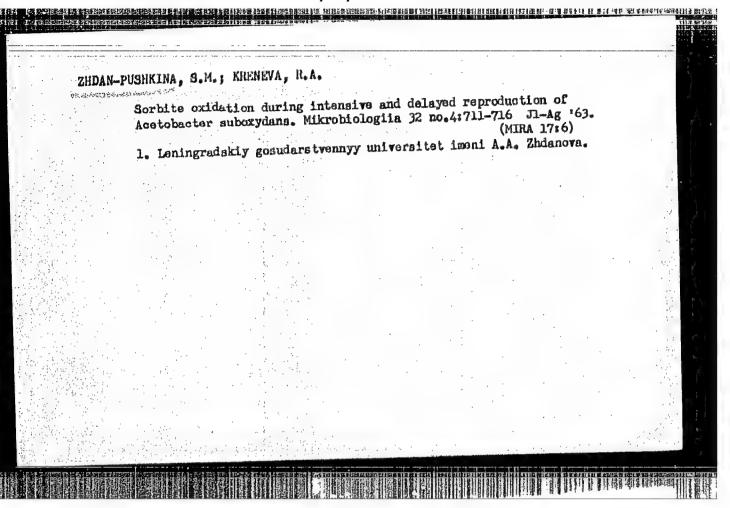


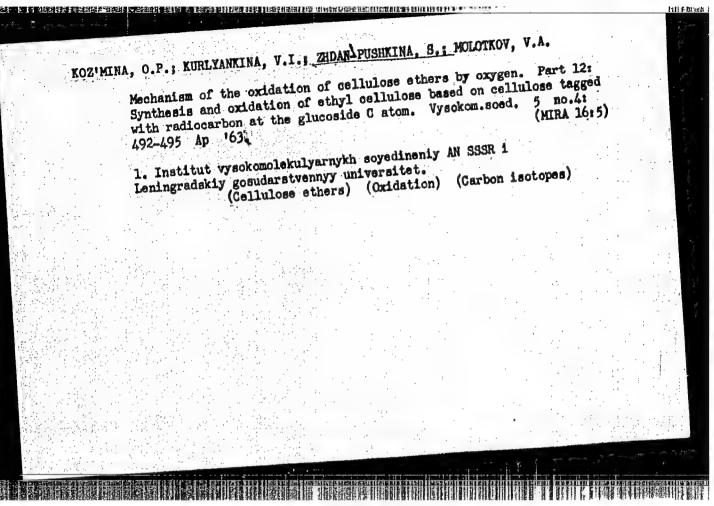


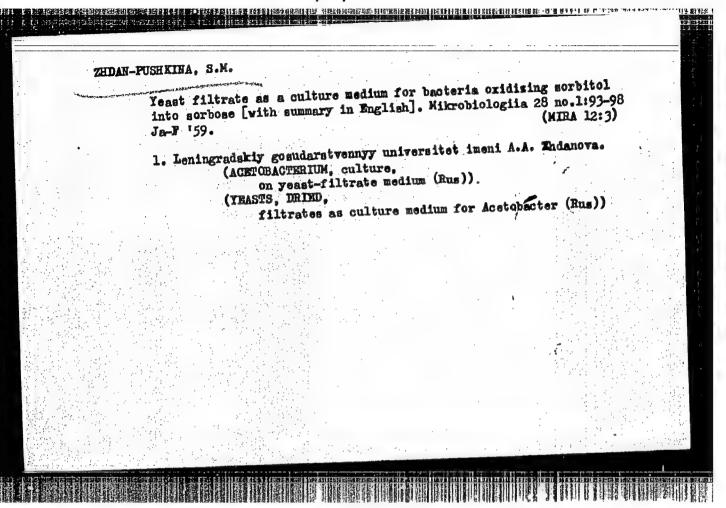












USSR/Microbiology - General Microbiology .

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9750

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Author

Razumovskaya, Z.G., Zhdan-Pushkina, S.M.

Inst

Title

: Characteristics of Sorbose-Forming Bacteria, Depending

on Cultivation Conditions.

Orig Pub

The relative date of the fifth of the : Vestn. Leningr. im-ta, 1956, No 15, 107-116

Real Control Control : Increased aeration exerts an especially powerful effect on bacterial multiplication during the initial hours of culture development and somewhat increases the numbers of bacteria. In media containing little nutrient, the lag-phase is lengthened and the entire process of propagation is very sluggish. An excess of nutrient substances in the lag-phase is also unfavorable to bacterial multiplication, and only in the final hours of culture development does the presence of increased nutrient substance secure an increase . in numbers of bacteria. An increase in sorbitol concentra-

Card 1/2

## ZHDAK-PUSHKINA, S.M.

USER / Microbiology. Technical Microbiology.

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21886

: Razumovskaya, Z.G., Zhdan-Pushkina, S.M. Author

Inst

: The Influence of the Planting Cultures on Sorbitol Oxidation by Title

Acetobacter suboxydans.

Orig Pub: Mikrobiologiya, 1956, 25, No 1, 16-24

Abstract: Observations on the development of a culture of A. suboxydans showed that, depending on the conditions of aeration and on the composition of the bacterial nutrient medium, separate reproductive phases occur at different times. Bacteria in the same phases of development, but under different conditions of cultivation, may differ in the number of cells, as well as in their physiological states, which becomes significant in utilizing these cultures as planting material. It was established that bacteria which are in a state of active reproduction in the logarithmic phase, when utilized as an inoculum, bring about oxi-

: 1/2 Card

USSR / Microbiology. Technical Microbiology.

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21886

dation of sorbitol less actively than bacteria taken at a later stage of culture development. The aeration conditions under which the seeding material was cultivated are of great importance. Bacteria cultivated under conditions of heightened aeration oxidize sorbitol more actively than in the surface method of cultivation. The increase in the final yeast moisture (dry residue 0.95%) reacts negatively on the activity of the planting culture. A medium with an increased concentration of B-complex (5%) is recommended as a mitrient medium for an active planting material for sorbitol production.

Card 2/2

-25-

ZHDANOVSKIY, N.S., doktor tekhn. nauk, prof.; FAYNLLYB, B.N., kand. tekhn. nauk; ZUBRITSKIY, B.N., inzh.

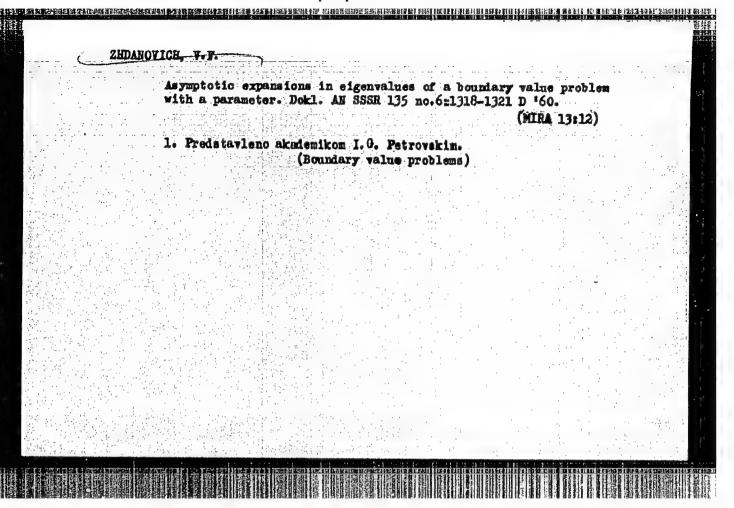
Effect of the intensity of the process of combustion on the wearing rate of piston rings. Trakt. i sel'khozmash. no.9:3-5 S '64.

(MIRA 17:11)

1. TSentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut
toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley i
Leningradskiy sel'skokhozyaystvennyy institut.

ZHDANOVSKIY, Nikolay Stepanovich -- awarded sci degree of Doc Tech Sci for the 22 Oct 57 defense of dissertation: "Scientific bases for the dragless [bestormoznyy - "brakeless"] testing of tractor and automobile motors" at the Council, Leningrad Agric Inst; Prot No 12, 17 May 58.

(BMVO, 10-58,23)



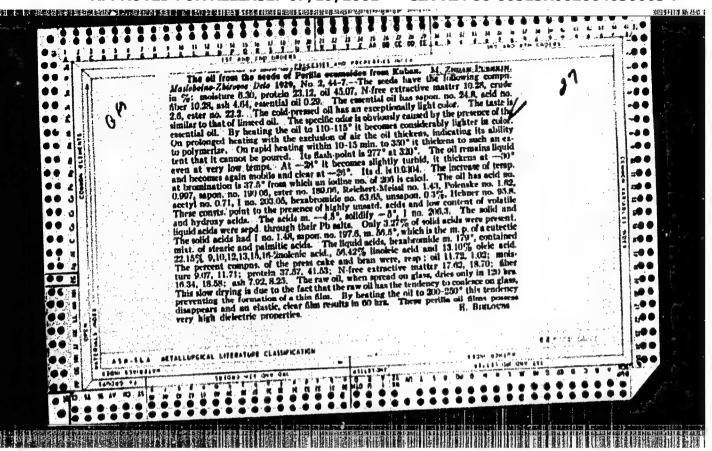
ZHDANOVICH, Vasilty Mikhaylovich; RUMYANTSEV, A.T., red.; GUREVICH; M.M., tekhn. red.

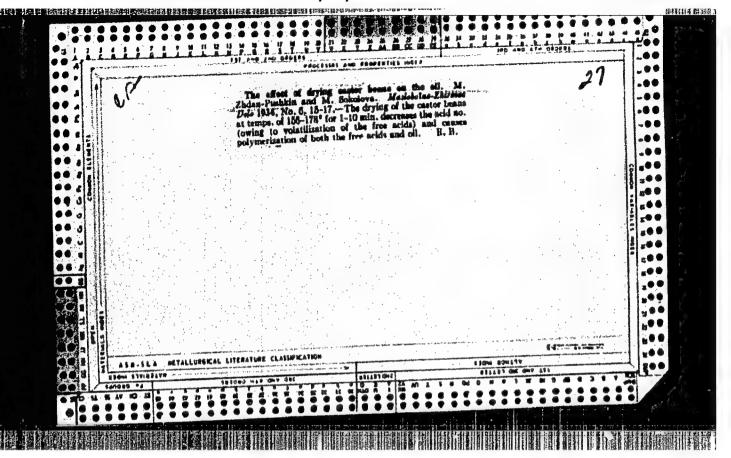
[Guarantee of high crop yields; accumulation and utilization of local fertilizers on White Russian collective farms] Zalog vysokogo urozhaia; iz opyta nakopleniia i primeneniia mestnykh udobrenii v belorusskikh kolkhozakh; Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 31 p.

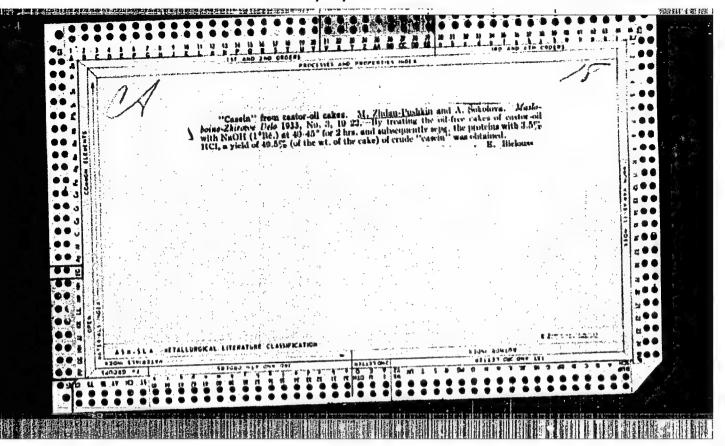
(White Russia—Field crops—Fertilizers and manures)

HARAI,	Zh.; ZHDANSKI, K.  High-tension voltage regulatoes with lo	w medestal voltage. Prib.1
	tekh.eksp. no.2:108-112 \$-0 156.	(MLRA 10:2)
	1. TSentral'nyy nauchno-issledovatel'sk nauk Vengrii, otdelenie kosmicheskogo i (Voltage regulations)	iy institut fisiki Akademii slucheniya.
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Zdarov, "The mechanization of washing and drying of metal products", Stornik solr. dokladov Srat. gor. nauchtekhn. konf-tsli prodprlyatly mashinostroit. i metalloobrabat. prom-stl, Saratov, 1949, p. 108-11.											
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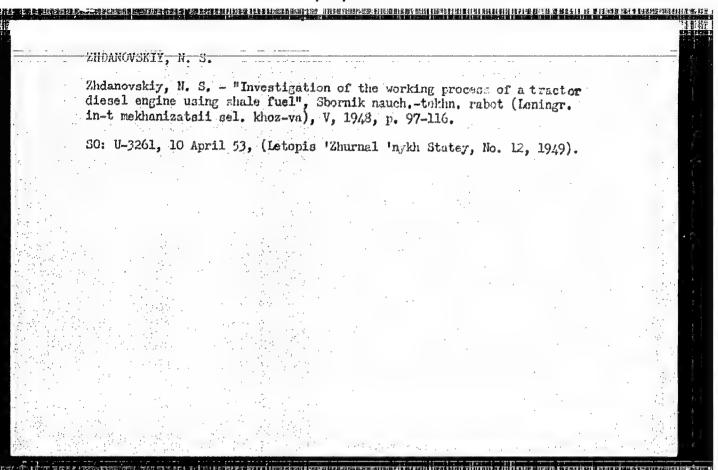
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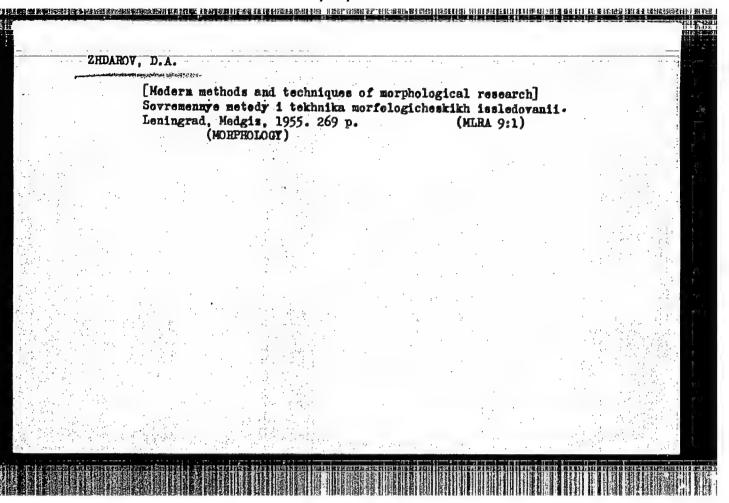
ZHDANOVSKIY, N.S.; KOVALEV, I.M.; KHASHCHINSKIY, V.P., professor.

[Eural thermal electric power stations] Sel'skie teplovye elektrostantsii. Pod red. V.P.Khashchinskogo. Moskva, Gos. isd-vo sel'khos. lit-ry, 1953. 123 p. (V pomoshch' sel'skim elektrifikatoram)

(KIRA 7:3)

(Electric power plants) (Heat engines)





ZHDAVCB. G. S., ZVCHKCVA, Z. V.

Electrons

Distribution of electron density of crystaline complex compounds. Zhur. eksp. i teor. fiz., 22, no 3, 1952.

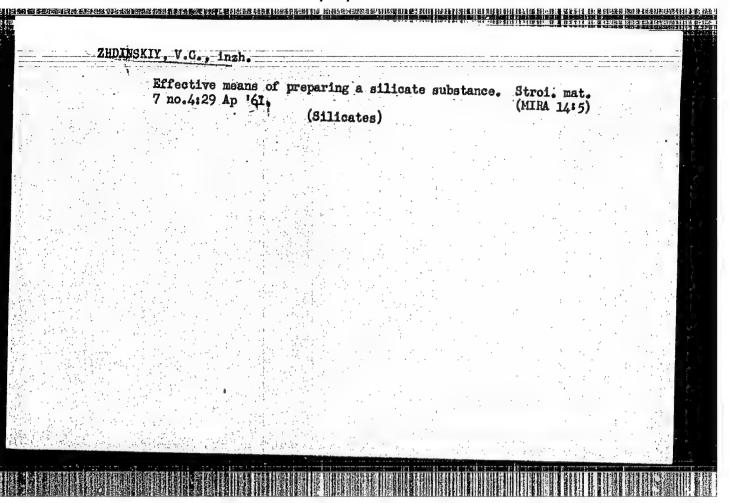
9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

CHERNYSHEV, A.V., inzh.; ZHDED, A.A., inzh.

P.A.Iapshin brigade of communist labor. Shakht. stroi. 6 no.3: 24-25 Mr '62. (MIRA 15:3)

1. Novomoskovskiy Dom inzhenera i tekhnika (for Chernyshev).

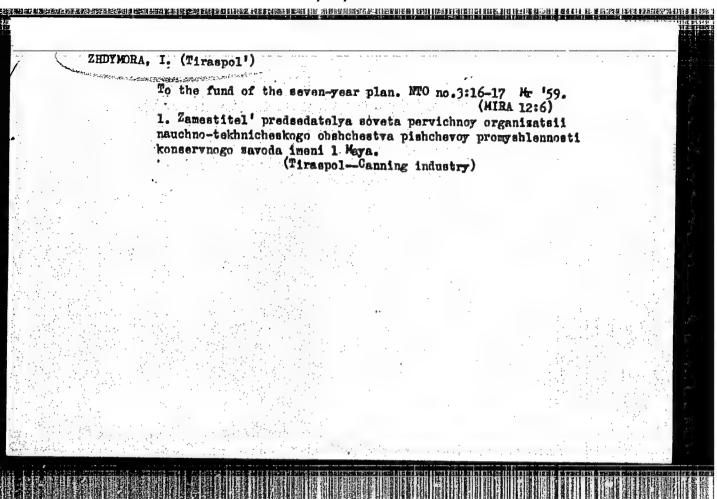
2. Shakhta No.66 kombinata Tulaugol' (for Zbded). (Tula Basin--Coal mines and mining)

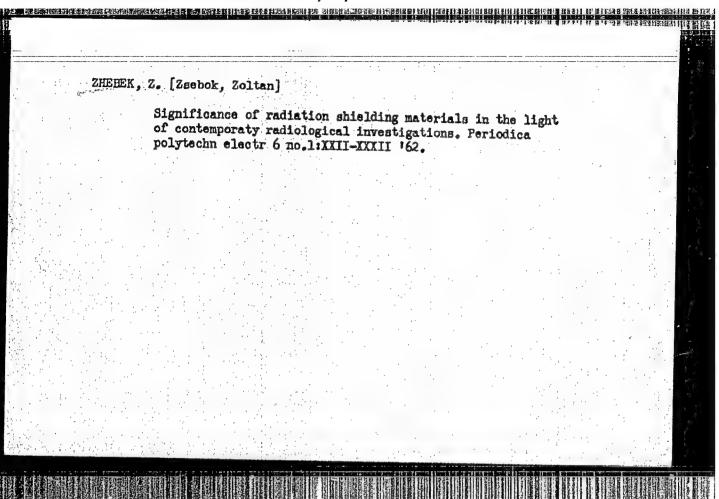


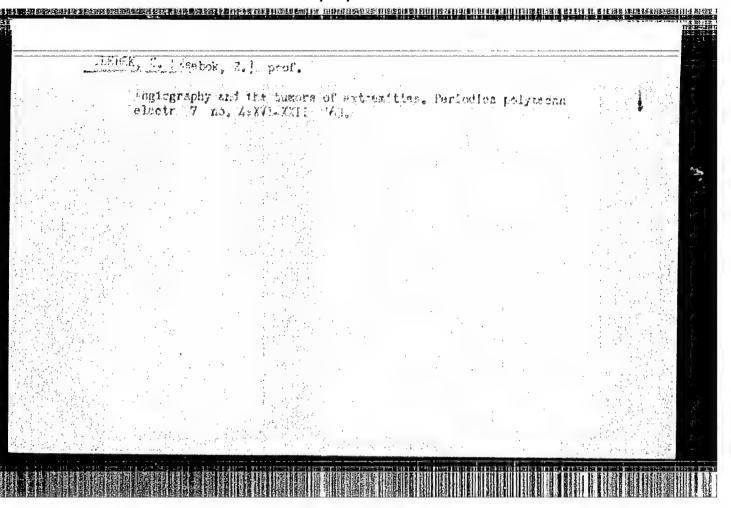
BALEK, A.; GABESAM, L., inzh.; KHAVELKOVA, B., inzh.; STITSKEL, I., inzh.; SHVAGR, Ya., inzh.; TITERA, D., inzh. ZHDYARSKIY, M., doktor; SEMENOV, I.I. [translator]; KORMNOV, Yu.F., red.; SHAGALOV, G.L., red.; REZOUKHOVA; A.G., tekhn.red.

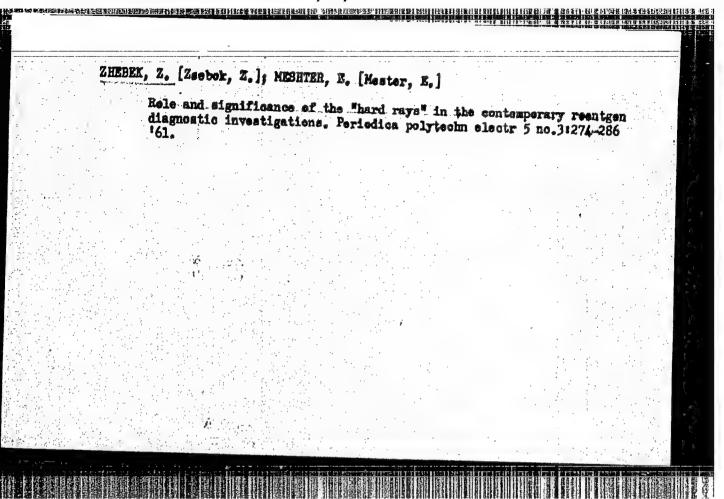
[Economic development of Czechoslovakia from 1948 through 1958] Ekonomicheekoe razvitie Chekhoslovakii, 1948-1958 gg. Red.IU.F. Kormnov. Moakva, Izd-vo inostr.lit-ry, 1959. 367 p. Translated from the Czech. (MIRA 13:4)

1. Gosudarstvennoye statisticheskoye upravleniye Chekhoslovakii (for Balek, Gabesam, Khavelkova, Stitskel, Shvagr, Titera, Zhdyarskiy). (Csechoslovakia—Economic conditions)









Zhebel', B. G. — "Development of Scanning by an Oscillating Ray and Its Application in Television." Min Communications USSR, Leningrad Electrical Engineering Inst of Communications ineni Professor M. A. Bonoh-Bruyevich, Leningrad, 1955 (Dissertation for Degree of Candidate of Technical Sciences).

S0: Knizhnaya Letopis'; No. 23, Moscov, June, 1955, pp. 87-104.

6.6000

S/112/59/000/012/090/097 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, pp. 258-259, # 25732

AUTHOR:

Zhebel', B.G.

TITLE:

Rocking Beam Scanning and Its Application to Television

PERIODICAL:

Sb. tr. Leningr. elektrotekhn. in-ta svyazi, 1957, No. 2 (32), pp.

29-34

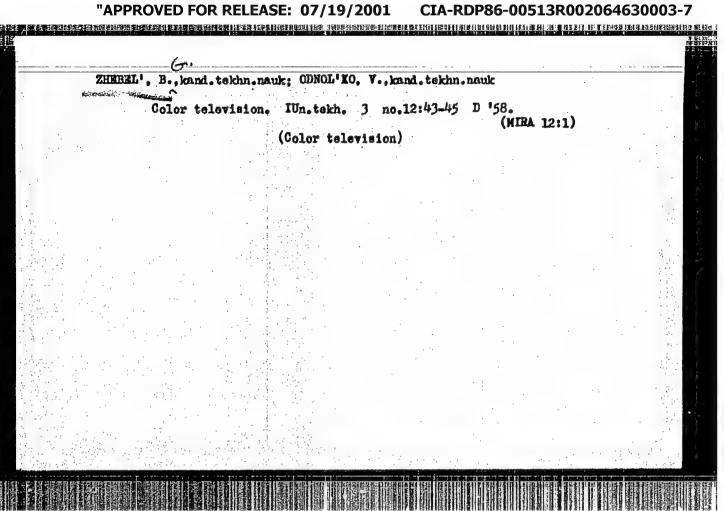
TEXT: Principles and special features of rocking beam scanning are described. By complementing the beam deflection in horizontal and vertical direction with a longitudinal or lateral swing by means of auxiliary generators of rectangular, sinusoidal and some other pulses, the sharpness of the image can be improved, the scanning frequency can be reduced, the time selection of video signals can be brought about, and so on.

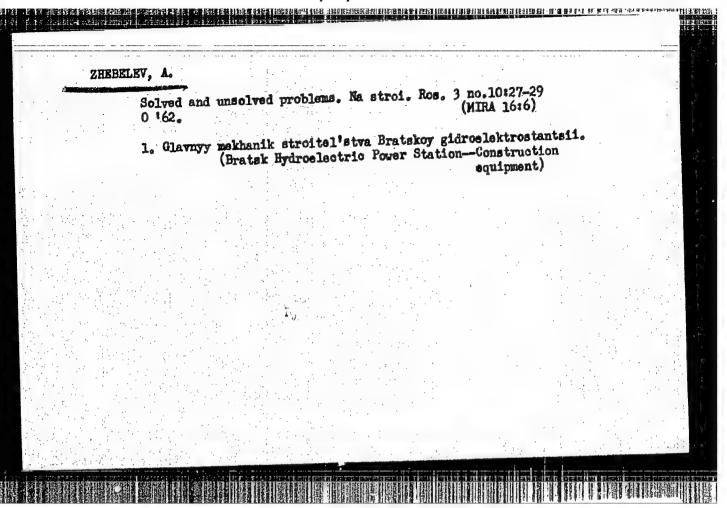
L.I.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

#### "APPROVED FOR RELEASE: 07/19/2001





SOV/123-59-16-66925

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 430 (USSR)

接出的经验基金数据<u>,是是有效性的智利表类等 数据等对码性的</u>预测量的联系 计规矩设置的记录 新的处理的。是这一种经过的一种,由于,由于,由于,由于,由于,由于

AUTHOR:

Zhebelev, V.K.

TITLE:

On the Problem of the Temperature Condition of the Piston of the High-

Speed YaAZ-204 Diesel Engine

PERIODICAL:

Izv. Irkutskogo s.-kh. in-ta, 1958, vyp. 8, 141 - 157

ABSTRACT:

A method is described of investigating the temperature field of the piston when operating under various conditions. The results of temperature measurements are stated. The most strained parts with respect to temperature are those parts of the surface which are located nearer to the edge. The non-uniform distribution of temperature promotes the formation of cracks. Measures are suggested to eliminate the defects.

Card 1/1

ZHEBELEV, V. K., Engineer

"Methods for Determination and Investigation of the Temperature Condition of Crankgear Components of a Two-Cycle High-Speed Diesel in Releation to Various Operating Conditions." Sub 18 May 51, Moscow Inst for the Mechanization and Electrification of Agriculture imeni V. M. Molotov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHEHELEVA, T.V.;
LEZHNEVA, A.A.

Oxidation of manganese-vanadium spinel by oxygen. Zhur. fiz. khim.
(MIRA 17:2)

1. Permskiy politekhnicheskiy institut.

|李建元 1845年 | 1945年 |

AKSENTOV, Yu.V.; VEREVKIN, N.S.; ZHEBEL', B.G.; ZLOTNIKOV, S.A.;

KOLIN, K.T.; KONDRAT'YEV, A.G.; MINENKO, Yu.G.; ODNOL'KO,

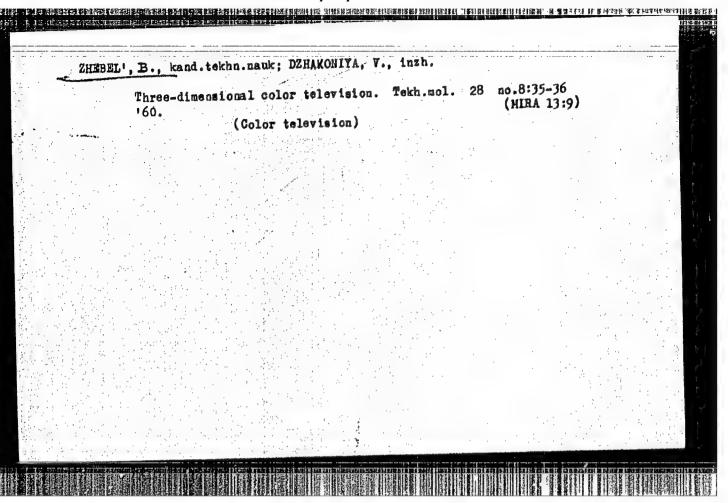
V.V.; TARAHETS, D.A.; SHMAKOV, P.V., red.; VENGREBYUK, L.I.,

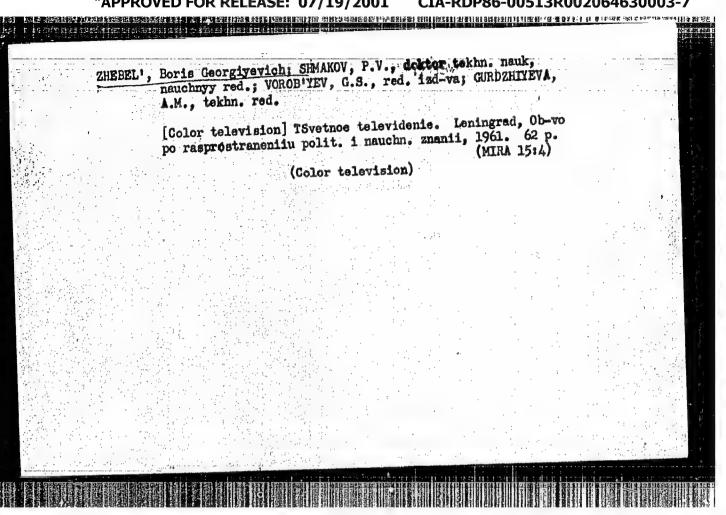
red.; KARABILOVA, S.F., tekhn.red.

[Television; general course] Televidenie; obshchii kurs. Pod

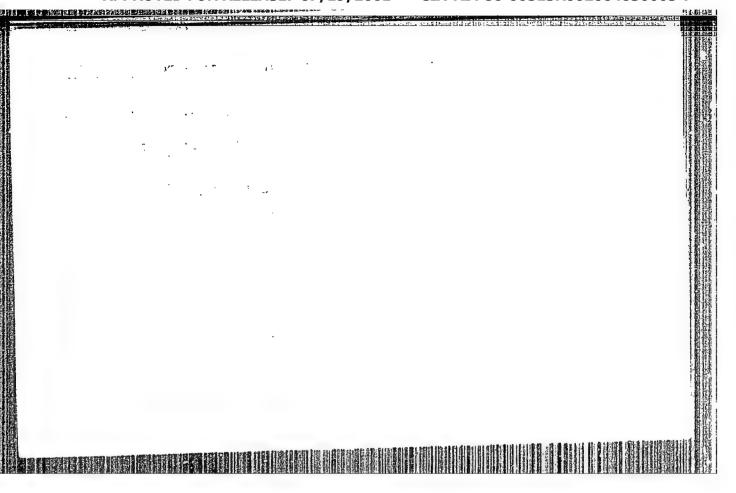
red. P.V. Shmakova. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio. 1960. 391 p. (HIRA 13:12)

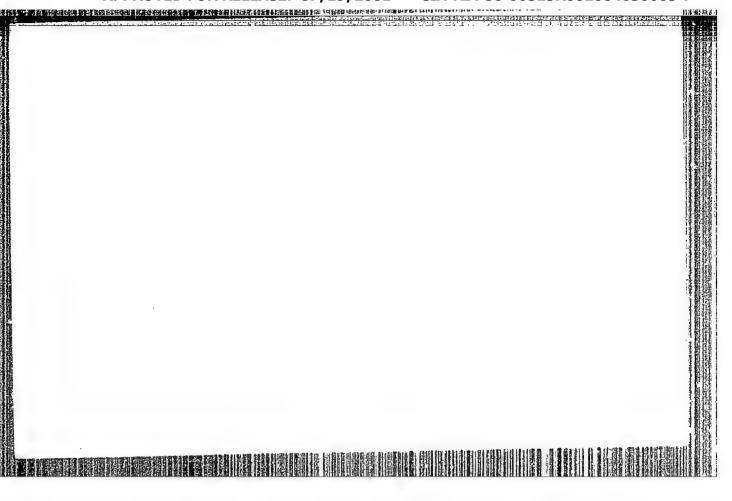
(Television)

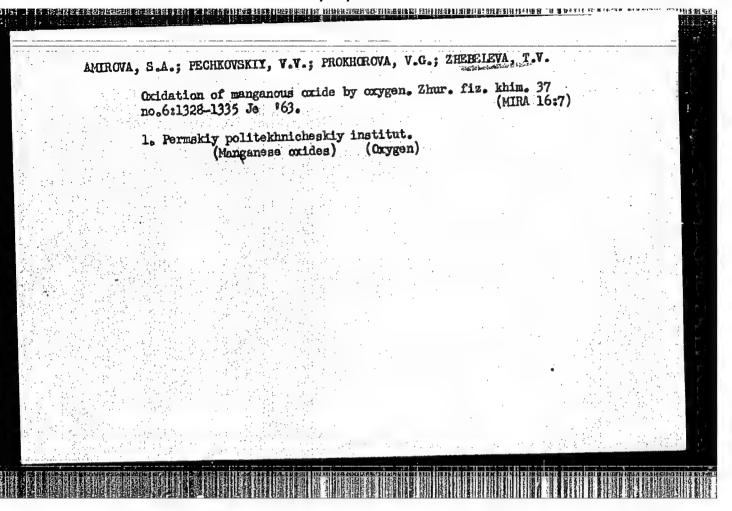


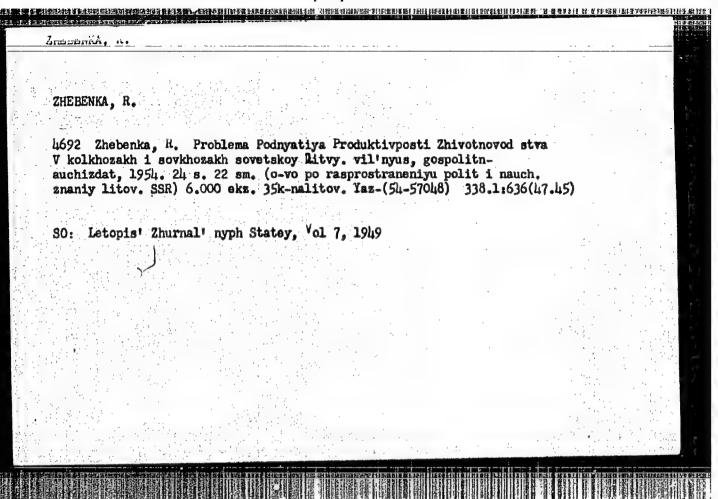


CIA-RDP86-00513R002064630003-7" APPROVED FOR RELEASE: 07/19/2001









USSR / Farm Animels. General Problems. Q-1

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105634.

Author: Zhebenka, R., Pakenas, P.
Inst: Not given.
Title: Artificial Insemination of Animals.

Orig Pub: Soc. zemes ukis., 1957, No 12, 18-24.

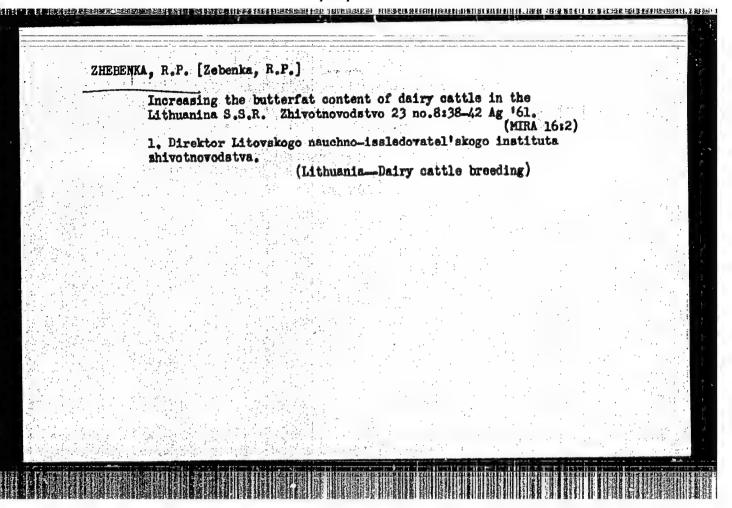
Abstract: No abstract.

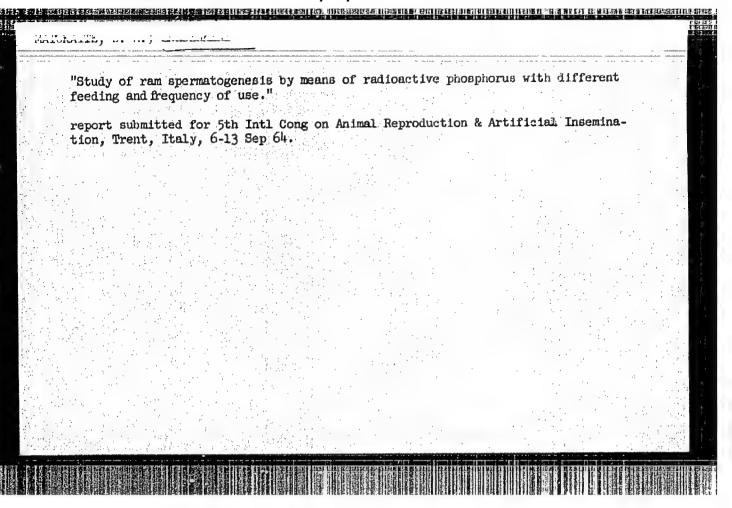
ZHEBENKA, R.P. [Zebenka, R.P.], kand. sel'skokhosyaystvennykh nauk; PAKEMAS,
P.I., kand. biol. nauk

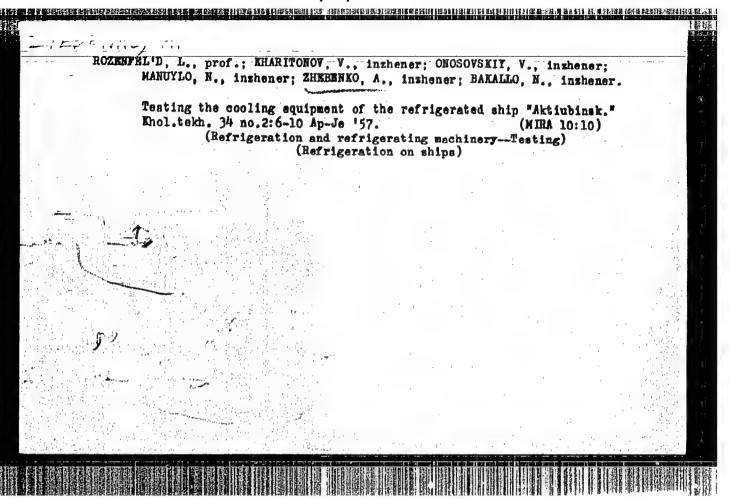
Organization of breeding work in the Lithmanian S.S.R. Zhivotnovodstvo 21 no.11:43-47 N '59 (MIRA 13:3)

1. Direktor Litovskogo nauchno-issledovatel'skogo instituta shivotnovodstva i veterinarii (for Zhebenka). 2. Zavednyushchiy laboratoriyey iskusstvennogo osemeneniya sel'skokhosyaystvennykh shivotnykh.

(Lithmania--Stock and stockbreeding)







ZHEBENKO, H. AUTHORS: Rozenfel'd, L. (Professor), Kharitonov, V., Onosovskiy, V., Mamuylo, N., Zhebenko, A., and Bakallo, N. (Engineers).

TITLE: Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Ispytaniye kholodil' nogo oborudovaniya refrizheratornogo sudna "Aktyubinsk")'. PERIODICAL: "Kholodil naya Tekhnika" (Rafrigeration Engineering), 1957, No.2, pp.6 - 10 (USSH). ABSTRACT: The results are described of tests of a refrigerated Diesel-electric ship, carried out by the Chair of Refrigeration Machinery of the Leningrad Technological Institute in cooperation with the team of a Baltic plant. The refrig-eration machinery was designed by the Central Refrigeration Machinery Design Office and manufactured by the Moscow
"Compressor" Works. The "Aktyubinsk" has a displacement of
10 250 tons and is one of a larger series of refrigerator vessels. It has 5 refrigerated holds and 5 refrigerated tween decks of a useful volume of 6700 m<sup>3</sup>, enabling transportation of 2700 tons of frozen or 3350 tons of chilled fish. The refrigerated holds and 'tween decks are subdivided into a fore and an aft group, each of which can operate at differing temperatures. The cooling of the holds and the 'tween decks is effected by a solution of calcium Card 1/3 chloride. In single stage operation a temperature of -6 C

Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Cont.) can be maintained in the holds and in the 'tween decks whilst in 2-stage operation a temperature of -18 C can be maintained so that it is possible to maintain a temperature of -6 C in one group of chambers and 'tween decks and a temperature of -18 C in the other group. The characteristics of the refrigeration machinery were established at the test stand of the "Compressor" works and have been described in an earlier paper (1). The results of the tests of the refrigerator ship are discussed and summarised in 2 tables. During the tests the entire refrigeration equipment operated satisfactorily, the insulation of the refrigerated holds and tween decks is of good quality and operated satisfactorily. The adopted 2-stage system is very simple in operation but the author considers it advisable to develop a circuit with an intermediate steam extraction applicable for marine use and to compare the respective technical and economic indices. To gain a clearer picture on the correct selection of the type of refrigeration machinery the applied 2-stage set MXM-AAC-150 should be compared with a high r.p.m. multi cylinder compressor, both stages being in a single unit. For marine conditions it may be of interest

Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Cont.) 66-2-2/22 to use a rotational compressor as a booster compressor of the lower stage. A number of slight inadequacies revealed during the tests should be eliminated and further control and metering instruments should be installed.

There are 3 figures, 2 tables and 1 Slavic reference.

AVAILABLE:

Card 3/3

ZHEBERSTOV, V.I.; ADANSKIY, Z.I.

Griterion of light sensitivity established by the International Organization for Standardization as applied to industrial photographic films. Zhur.nauch.i prikl.fot. i kin. 5 no.61450-451 N-D '60.

1. Moskovskiy poligraficheskiy institut.
(Photographic sensitometry—Standards)
(Photography—Films)

ZHEBIN, A.I.; BALINCHENKO, I.I.; KARAGODIN, L.N., kand.tekhn.nauk; SIMONOV, A.A., inzh.

Article "Safety measures in baring coal intercalation." Bezop. truda v prom. 6 no.2:21-23 F '62. (MIRA 15:2)

1. Pomoshchnik glavnogo inzh. shakhty "Kommunist-Novaya" tresta Oktyabr'ugol' (for Zhebin). 2. Nachal'nik opornogo punkta Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoy promyshlennosti pri shakhte "Kommunist-Novaya" tresta Oktyabr'ugol' (for Balinchenko). 3. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti (for Karagodin, Simonov).

(Coal mines and mining-Safety measures) (Shchukin, V.R.)

ZHEBIN, Moisey Isaakovich; SHAMIRGON, S.A., nauchnyy red.; IONOV,
V.N., red.; GLAZKOVA, Ye.I., red.; DOROINOVA, L.A., tekhn.
red.

[Molder employed in manual modding]Formovehchik ruchnoi formovki. Moskva, Proftekhizdat, 1962. 294, p. (MIRA 16:1)

(Molding (Founding))

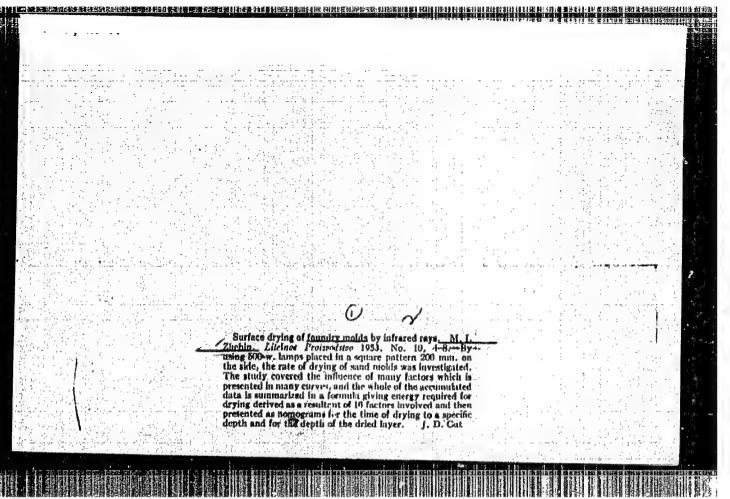
ZHEBIN, A. I., Engineer

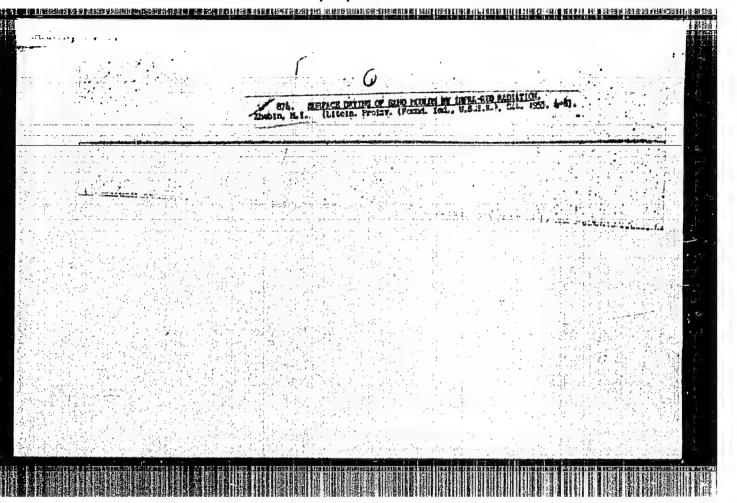
"Investigation of the Processes of Surface Drying of Casting Kolds With Infrared Rays." Sub 9 Jan 51, Moscow Machine Tool and Tool Inst imeni I. V. Stalin

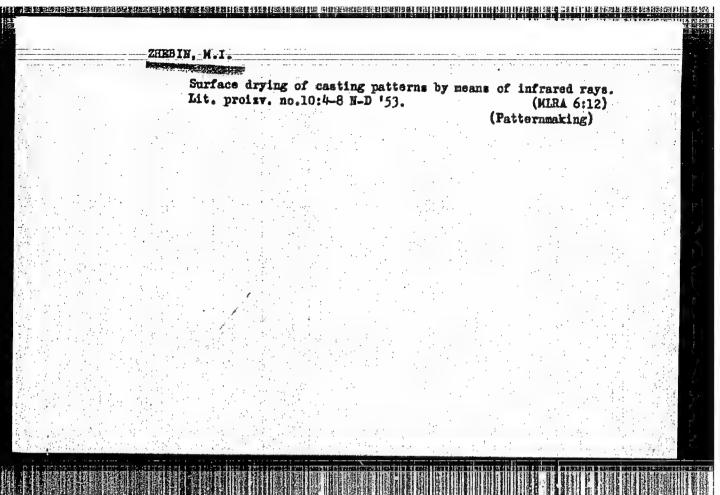
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Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55







TETUSHKIN, A., shturman-aeros yemshchik; SOROKIN, S., shturman-aeros yemshchik;

ZHERKO, V., shturman-aeres yemshchik; CHUGUNKIN, M., shturman-aeros yemshchik;

Improving the training of aerial navigators-photographers. Grazhd.

av. 12 no.7:16 Jl '55.

(Navigation (Aeronautics)) (Photography, Aerial)

37279 s/169/62/000/004/064/103 D228/D302

Chegoryan, V.A., and Zhebko, V.M.

AUTHORS: TITLE:

Investigating horizontal movements of ionization irregularities in the ionosphere over Khar'kov in the

IGY period

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 4, 1962, 8, abstract 4G41 (Mezhdunar. geofiz. god, Inform. byul., no. 3, 1962, 24-29)

TEXT: The results of measuring the speed and the directional distribution of the drift of small-scale ionization irregularities in the ionosphere's E- and F-regions are given for different seasons of the year in the period from December 1958 to December 1959. The

of the year in the period from December 1998 to December 1999. The employed apparatus and the program and the method of the observations are briefly described. It is shown that speeds of 70 - 90 tions are briefly described. It is shown that speeds of 70 - 90 m/sec (in spring and summer) m/sec (in winter and autumn) and 40 - 70 m/sec (in spring and summer) are most often encountered in the ionosphere's F-region the velocity direction is asst-west. In the ionosphere's F-region the velocity direction is east-west. In the ionosphere's E-region the velocity is 60 - 100 m/sec (in winter and autumn) and 40 - 80 m/sec (in sum-

Investigating horizontal movements ... S/169/62/000/004/064/103 D228/D302

mer and spring). The drift direction is westwards and southwards, with small deviations towards the north and the east. Comparison of the results, obtained at two stations (distance of ~85 km), discloses the coincidence in the character of the speed distribution, but there is no complete congruence in the distribution of the directions. [Abstractor's note: Complete translation].

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D039/D112

9.9110 AUTHO H

Taran, V.I.; Zhebko, V.M.

TITLE:

The measurement of velocities of the drift of heterogeneities in the E and P zones of the ionosphere in accordance with the International Geophysical Year program

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskiy god; informatsionnyy byulleten', no.3, 1961, 13-18

TEXT: The present paper covers the results of experimental investigations of the velocity and directions of the drift of heterogeneities in the E and F zones of the ionosphere. These investigations were carried out, in accordance with the program of the International Geophysical Year, in Turkov and cover the period from Aug 24, 1957 to Nov, 1958. The measurements were conducted according to a graphical method proposed in Ref. 1 (Ref. 1: Instruction Manual, No V, The Ionosphere, vol. III, The measurement of ionospheric drifts, 1956). V.P. Dokuchayev (Ref. 3: Izv. vyssh. ucheb. zavedeniy, seriya radio-

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Card 1/4

The measurement of veloci ies ..

30153 8/609/61/000/005/001/258 D039/D112

tekhnicheskaya, No 1, 1958) had previously found that in the loser part of the A region the ionized gas moved at the velocity of the wind, while in the F region, the velocity of a homogeneous ionized mass differed neticeably from the wind velocity. In the present study of the velocity of the drift of heterogeneities, provision was made for the recording of amplitudes of radiowaves reflected from the ionosphere at three points on the earth's surface; the distance between each point was of the order of one wavelength. An ionospheric-station transmitter, developed by the Khar'kovskiy politekhnisheskiy institut (Khar'kov Polytechnic Institute) and mentioned in the reper of v.v. clutov and B.C. Bondar' (Ref. 4: Inform. byull. MCC, No 1, Indexe At UkrSSR, 1958), was used in these investigations. The reflected signals need to the contract the contract of the contract ed at three spots located 144 m from one another. The receiving outenness were placed on open land. Tuned single-loop rectangular coils site a side of 2 w were used as receiving antennas on the 2.2+Mc band, and 15 m dipoles on the d.5-8 Mc band. A receiver fitted with an electronic commutator and degrathed in Ref. 4, as well as a ring scaler operating on vacuum tubes built around binary cells, were also used. The ring scaler was described in the

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The measurement of velocities

paper of M.M. Bonch-Bruyevich (Ref. 5: Primeneniye elektronnykh lamp v eksperimental noy fizike The application of electronic tubes in experimental physics], GITTL, 1954, str. 505). Up to June 1958, the drift in the F region was measured at night, and from June on - at day time. It was found that for the E region the predominant velocity of the drift of heterogeneities was 50-60 m/sec and for the F region - 50-60 and 80-90 m/sec. During the period under study, the direction of the drift of heterogeneities in the E region was chiefly southerly and easterly. From Aug 1957 to Nov 1958, the drift in the F zone was southerly and easterly, and from Sept to Nov 1958, mainly easterly. Over the whole period of measurements the direction of the drift in the E and F zones coincided to a certain degree. The following conclusions were drawn from the results: (1) the difficulties of determining the true height of the drifts made it difficult to find the main directions of the drifts and their diurnal and seasonal variations; (2) very high solar activity often caused abnormal phenomena in the ionosphere which considerably complicated the analysis of processes taking place there; (3) the high gradient of the velocity and direction of the drift according to height,

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Card 3/4

The measurement of velocities ...

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can lead to a sharp change of the velocity and direction of the drift even upon a small change of the effective height; (4) the predominant velocity of the drift for the E region was found to be about 50-60 m/sec and that for the F region - about 50-60 and 80-90 m/sec. In the F region the drift was south-westerly and easterly, and in the E region - southerly and easterly. Both authors express their acknowledgement to B.L. Kashcheyev for the supervision of this research work. There are 12 figures and 6 references: 4 publications read as follows: Instruction Manual, No V, The Ionosphere, vol III, The measurement of ionospheric drifts, 1956; I.L. Jones, B. Landmar a. C.S.K. Setty, Movements of ionospheric irregularities observed simultineously by different methods, J. of Atmosph. Terr. Phys., vol. 10, 1957.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Khar'kov Folytechnic Institute).

Card 4/4

30155 3/609/61/000/003/003/008 D039/D112

AUTHORS:

Chegoryan, V.A.; Zhebko, V.M.

TITLE:

An investigation of the horizontal movements of the ionization heterogeneities in the ionosphere, conducted over Khar'kov in the International Geophysical Cooperation period .

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniju Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskiy goti tiafermetsionnyy byulleten', 1961, 24-29

The paper presents results of measurements of the velocity and direc tional distribution of the drift of ionization heterogeneities in the E and F regions of the ionosphere. The results cover the period from December 1958 to December 1959, and are given for various seasons of the year. The investigation was conducted both at a field laboratory located 85 km from Khar!kov and at the Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute). The horizontal drifts were investigated by the method of spaced V

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30155 S/609/61/000/003/003/008 D039/D112

An investigation of the ...

antenna Preception. All observations were carried out in accordance with the approved international program of measuring the drifts in the ionosphere both on the "regular world days", and on other days. The recordings were processed by the method of similar fadings mentioned in the papers of S.N. Mitra (Ref. 1: Statistical analysis of fading of a single downcoming wave from the ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 505, and Ref. 2: A Radio Method of Measuring Winds in the Ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 441.). The ionospheric station used at the field laboratory is described by V.I. Taran and V.M. Zhebko (Ref. 3: "Mezhdunarodnyy geofizioheskiy god", Inf. byulleten' No 3, Izd-vo A. Uk-SSE, 1061) and by V.V. Tolstoy and B.G. Bondar' (Ref. 4: "Mezhdunarodnyy geofizicheskiy god", Inf. byulleten' No 1, Izd-vo AN UkrSSR, 1958.). The ionospheric station used at the Khar'kov Polytechnic Institute is described by N.T. Tsymbal (Ref. 5: Izvestiya vuzov MVO, "Radiotekhnika", No 2, 1959, 221.). The observations at the field laboratory were carried out on a near-gyromagnetic frequency. The investigations at the field laboratory were carried out from December 1958 to December 1959 and were based on 230 recordings for the E region and 383

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